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APPLICATION NO). 1	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/681,622		05/10/2001	Peter M. Will	06666/033002/USC 2857 4658 EXAMINER	
20985	7590	12/30/2003			
FISH & F		•	SHAFER, RICKY D		
12390 EL CAMINO REAL SAN DIEGO, CA 92130-2081				ART UNIT	PAPER NUMBER
	,			2872	
				DATE MAIL ED: 12/20/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

		A					
	Application No.	Applicant(s)					
	09/681,622	WILL, PETER M.					
Office Action Summary	Examiner	Art Unit					
	Ricky D. Shafer	2872					
The MAILING DATE of this communication app Period for Reply	pears on the cover she t with the	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period vortice. Failure to reply within the set or extended period for reply will, by statute. - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
1) Responsive to communication(s) filed on 100	<u>ctober 2003</u> .						
2a)⊠ This action is FINAL . 2b)☐ This	action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4a) Of the above claim(s) <u>4,6-18,20-25 and 27</u> 5) ☐ Claim(s) is/are allowed. 6) ☒ Claim(s) <u>1-3,5,19,26,28 and 29</u> is/are rejected 7) ☐ Claim(s) is/are objected to.	☑ Claim(s) <u>1-3,5,19,26,28 and 29</u> is/are rejected.						
Application Papers							
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 10 October 2003 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Example 11.	: a)⊠ accepted or b)□ objected drawing(s) be held in abeyance. Se tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).					
Priority under 35 U.S.C. §§ 119 and 120							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) The translation of the foreign language provisional application has been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. 							
Attachment(s)	_						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) _ 	5) 🔲 Notice of Informal I	r (PTO-413) Paper No(s) Patent Application (PTO-152)					

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Claims 2, 3, 5, 28 and 29 are rejected under 35 U.S.C. 112, second paragraph, as being 1. indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 2, line 1, "said mirror array" lacks proper antecedent basis and nexus with respect to the reflector elements.

In claim 28, line 1, "said plurality of moving mirrors" lacks proper antecedent basis and nexus with respect to the reflector elements.

In claim 29, line 10, the use of the langauge "a device" is vague, indefinite and/or confusing. It is unclear to the examiner whether the above mentioned language is referring to the device of claim 29, line 1, the optical device of claim 29, line 3 or another device.

In claim 29, line 10, "said plurality of moving mirrors" lacks proper antecedent basis and nexus with respect to the reflector elements.

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- Claims 1-3 and 19 are rejected under 35 U.S.C. 102(b) as being anticipated by Leddy et al 3. (493).

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Leddy et al discloses an optical device comprising an array of movable reflector (DMD) elements (28) and a controller (not shown) for the array of reflector (mirror) elements which can operate in the digital mode (see column 4, lines 45-52) to change the position of said array of reflector (mirror) elements so as to position an output beam to a desirable location, wherein the controller inherently include multiple or a plurality of bits, one for each of the reflector (mirror) elements. Note Figures 1a and 5a to 12 along with the associated description thereof.

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 5, 26 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Leddy et al ('493) in view of Lin et al ('869).

Leddy et al discloses all of the subject matter claimed, note the above explanation, except for explicitly stating that the array of reflector (mirror) elements having different sizes.

Lin et al teaches it is well known to employ different sizes for reflector (mirror) elements in the same field of endeavor for the purpose of changing the phase of a wave front of a beam.

Therefore, it would have been obvious and/or within the level of one of ordinary skill the art at the time the invention was made to modify the reflector (mirror) elements of Leddy et al to Application/Control Number: 09/681,622 Page 4

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include different sizes, as taught by Lin et al, in order to change the phase of a wave front of a beam so as to increase the processing of information.

6. Claim 29 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL.** See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

8. Any inquiry concerning this communication should be directed to R.D. Shafer at telephone number (703) 308-4813.

RDS

December 29, 2003